

**INFORMATION TO OFFERORS OR QUOTERS
SECTION A - COVER SHEET**

*Form Approved
OMB No. 9000-0002
Expires Sep 30, 2000*

The public reporting burden for this collection of information is estimated to average 35 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (9000-0002), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS. RETURN COMPLETED FORM TO THE ADDRESS IN BLOCK 4 BELOW.

1. SOLICITATION NUMBER

N00178-04-R-1006

2. (X one)

- ☐ a. INVITATION FOR BID (IFB)
☒ b. REQUEST FOR PROPOSAL (RFP)
☐ c. REQUEST FOR QUOTATION (RFQ)

3. DATE/TIME RESPONSE DUE

10 October 2003, 2:00 PM EST

INSTRUCTIONS

NOTE: The provision entitled "Required Central Contractor Registration" is applicable to most solicitations.

1. If you are not submitting a response, complete the information in Blocks 9 through 11 and return to the issuing office in Block 4 unless a different return address is indicated in Block 7.

2. Responses must set forth full, accurate, and complete information as required by this solicitation (including attachments). "Fill-ins" are provided on Standard Form 18, Standard Form 33, and other solicitation documents. Examine the entire solicitation carefully. The penalty for making false statements is prescribed in 18 U.S.C. 1001.

3. Responses must be plainly marked with the Solicitation Number and the date and local time set forth for bid opening or receipt of proposals in the solicitation document.

4. Information regarding the timeliness of response is addressed in the provision of this solicitation entitled either "Late Submission, Modification and Withdrawal of Bid" or "Instructions to Offerors - Competitive Acquisitions".

4. ISSUING OFFICE (Complete mailing address, including ZIP Code)

Contracting Officer
Attn: XDS11/Bldg 183/1st Floor/Room 102
NSWC Dahlgren Division
17320 Dahlgren Road, Dahlgren Va 22448-5100

5. ITEMS TO BE PURCHASED (Brief description)

Research and Development Services

6. PROCUREMENT INFORMATION (X and complete as applicable)

☐ a. THIS PROCUREMENT IS UNRESTRICTED

☐ b. THIS PROCUREMENT IS _____ % SET-ASIDE FOR SMALL BUSINESS. THE APPLICABLE SIC CODE IS: _____

☐ c. THIS PROCUREMENT IS _____ % SET-ASIDE FOR HUB ZONE CONCERNS. THE APPLICABLE SIC CODE IS: _____

☐ d. THIS PROCUREMENT IS RESTRICTED TO FIRMS ELIGIBLE UNDER SECTION 8(a) OF THE SMALL BUSINESS ACT.

7. ADDITIONAL INFORMATION

8. POINT OF CONTACT FOR INFORMATION

a. NAME (Last, First, Middle Initial)

XDS112

b. ADDRESS (Include ZIP Code)

c. TELEPHONE NUMBER (Include Area Code and Extension)

540-653-7478

d. E-MAIL ADDRESS

XDS11@nswc.navy.mil

9. REASONS FOR NO RESPONSE (X all that apply)

☐ a. CANNOT COMPLY WITH SPECIFICATIONS

☐ b. UNABLE TO IDENTIFY THE ITEM(S)

☐ c. CANNOT MEET DELIVERY REQUIREMENT

☐ d. DO NOT REGULARLY MANUFACTURE OR SELL THE TYPE OF ITEMS INVOLVED

☐ e. OTHER (Specify)

10. MAILING LIST INFORMATION (X one)

WE ☐

DO ☐

DO NOT DESIRE TO BE RETAINED ON THE MAILING LIST FOR FUTURE PROCUREMENT OF THE TYPE INVOLVED.

11a. COMPANY NAME

b. ADDRESS (Include ZIP Code)

c. ACTION OFFICER

(1) TYPED OR PRINTED NAME (Last, First, Middle Initial)

(2) TITLE

(3) SIGNATURE

(4) DATE SIGNED
(YYYYMMDD)

FOLD

FOLD

FROM

AFFIX
STAMP
HERE

SOLICITATION NUMBER	
N00178-04-R-1006	
DATE (YYYYMMDD)	LOCAL TIME

SOLICITATION, OFFER AND AWARD			1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING DO	PAGE OF PAGES 1 47	
2. CONTRACT NUMBER		3. SOLICITATION NUMBER N00178-04-R-1006		4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED 11 Sept 2003	
7. ISSUED BY CONTRACTING OFFICER XDS116 NAVAL SURFACE WARFARE CENTER DHALGREN DIV 17320 DAHLGREN ROAD, DAHLGREN VA 22448-5100		CODE N00178		6. REQUISITION/PURCHASE NUMBER			
8. ADDRESS OFFER TO (If other than Item 7)							

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and ONE copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in NSWCDD Bldg. 183 Room 102 until 2:00P local time 10 OCT 2003
(Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:	A. NAME XDS11	B. TELEPHONE (NO COLLECT CALLS)		C. E-MAIL ADDRESS XDS11@nswc.navy.mil
		AREA CODE 540	NUMBER 653-7478	EXT.

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OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT ☒ 10 CALENDAR DAYS (%) ☐ 20 CALENDAR DAYS (%) ☐ 30 CALENDAR DAYS (%) ☐ CALENDAR DAYS (%)
(See Section I, Clause No. 52-232-8)

14. ACKNOWLEDGMENT OF AMEND- MENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
15B. TELEPHONE NUMBER AREA CODE NUMBER EXT.		15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.	17. SIGNATURE
			18. OFFER DATE

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION	
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c) () <input type="checkbox"/> 41 U.S.C. 253(c) ()		23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)	ITEM
24. ADMINISTERED BY (If other than Item 7) CODE		25. PAYMENT WILL BE MADE BY CODE	
26. NAME OF CONTRACTING OFFICER (Type or print)		27. UNITED STATES OF AMERICA (Signature of Contracting Officer)	28. AWARD DATE

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

AUTHORIZED FOR LOCAL REPRODUCTION
Previous edition is unusable

STANDARD FORM 33 (REV. 9-97)
Prescribed by GSA - FAR (48 CFR) 53.214(c)

SECTION A Solicitation/Contract Form

CLAUSES INCORPORATED BY FULL TEXT

Ddl-A20 NOTICE TO CONTRACTORS**NOTICE TO CONTRACTORS**

THE PURPOSE OF THIS NOTICE IS TO BRING MATTERS TO YOUR ATTENTION WHICH CAN AFFECT PAYMENT OF YOUR INVOICES.

CCR ANNUAL RENEWAL

YOU MUST CONFIRM YOUR REGISTRATION IN THE CENTRAL CONTRACTOR REGISTRATION (CCR) DATABASE OR THE DEFENSE FINANCE AND ACCOUNTING SERVICE (DFAS) MAY NOT PROCESS YOUR INVOICE. YOU MAY OBTAIN MORE INFORMATION ON THIS ANNUAL RENEWAL CONFIRMATION PROCESS BY CALLING 1-888-227-2423 OR VIA THE INTERNET AT <http://www.ccr2000.com/>

EFTS

ELECTRONIC FUNDS TRANSFER (EFT) PAYMENTS ARE BASED ON THE EFT INFORMATION CONTAINED IN THE CCR DATABASE. IT IS CRITICAL THAT YOU ENSURE THAT YOUR EFT INFORMATION IN THE CCR DATABASE REMAINS CURRENT AND CORRECT.

INVOICES

INVOICES MUST BE PREPARED AS PRESCRIBED BY THIS CONTRACT/ORDER OR THEY MAY BE REJECTED BY THE PAYING OFFICE. THIS CONTRACT/ORDER INCORPORATES ONE OR MORE OF THE FOLLOWING CLAUSES REGARDING PREPARATION AND SUBMISSION OF INVOICES:

FAR 52.212-4
FAR 52.213-2
FAR 52.232-25
NAPS 5252.232-9000
NAPS 5252.232-9001
NAPS 5252.232-9002
NAPS 5252.232-9003
Ddl-G1
Ddl-G40
Ddl-G41

PLEASE INSURE THAT INVOICES ARE PREPARED AND SUBMITTED IN ACCORDANCE WITH THESE CLAUSES AND THE FOLLOWING ADDITIONAL INFORMATION:

INVOICE PREPARATION – PLEASE ENSURE THAT YOUR INVOICE CLEARLY REFLECTS:

- (1) INVOICE NUMBER,
- (2) DATE OF INVOICE,
- (3) COMPANY NAME AND REMIT TO ADDRESS (COMPANY NAME ON THE INVOICE MUST MATCH THE COMPANY NAME ON THE CONTRACT/ORDER),
- (4) CONTRACT/ORDER NUMBER, AND
- (5) INVOICE AMOUNT.

INVOICE SUBMISSION -SUBMIT THE ORIGINAL AND THREE COPIES OF EACH INVOICE TO THE ADDRESS SHOWN IN SECTION G. ALSO, SEND INFORMATION COPIES TO EACH OF THE ADDRESSES SHOWN BELOW:

1) NAVAL SURFACE WARFARE CENTER, DAHLGREN DIVISION
ATTN: CODE XDM24I / VENDOR PAY
17320 DAHLGREN ROAD
DAHLGREN, VA 22448-5100

2) LINDA D. WILKES
CODE XDS112
NAVAL SURFACE WARFARE CENTER, DAHLGREN DIVISION
17320 DAHLGREN ROAD
DAHLGREN, VA 22448-5100

REGISTER FOR INVOICE STATUS

YOU CAN REGISTER AT THE FOLLOWING WEB SITE TO MONITOR THE STATUS OF YOUR INVOICES. THIS IS THE VENDOR PAY INQUIRY SYSTEM-MOCAS USER REGISTRATION.
<http://vendorpay.dfas.mil/newuser>

SECTION B Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Weapon System Engineering Support (AEGIS BMD; ERGM; APMG)		Lot		
	CPFF - The contractor shall provide Analysis & Simulation Support for the period beginning on the date of award continuing for 3 years in accordance with Section C/Statement of Work.				
				ESTIMATED COST	
				FIXED FEE	
				TOTAL EST COST + FEE	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Data Requirements		Lot		
	CPFF - Data in accordance with Exhibit A, DD Form 1423, Contract Data Requirements List.				

NSP

CLAUSES INCORPORATED BY FULL TEXT

HQ B-2-0004 EXPEDITING CONTRACT CLOSEOUT (NAVSEA) (DEC 1995)

(a) As part of the negotiated fixed price or total estimated amount of this contract, both the Government and the Contractor have agreed to waive any entitlement that otherwise might accrue to either party in any residual dollar amount of \$500 or less at the time of final contract closeout. The term "residual dollar amount" shall include all money that would otherwise be owed to either party at the end of the contract, except that, amounts connected in any way with taxation, allegations of fraud and/or antitrust violations shall be excluded. For purposes of determining residual dollar amounts, offsets of money owed by one party against money that would otherwise be paid by that party may be considered to the extent permitted by law.

(b) This agreement to waive entitlement to residual dollar amounts has been considered by both parties. It is agreed that the administrative costs for either party associated with collecting such small dollar amounts could exceed the amount to be recovered.

HQ B-2-0007 LIMITATION OF COST OR LIMITATION OF FUNDS LANGUAGE

The clause entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF FUNDS" (FAR 52.232-22), as appropriate, shall apply separately and independently to each separately identified estimated cost.

SECTION C Descriptions and Specifications

CLAUSES INCORPORATED BY FULL TEXT

STATEMENT OF WORK

Weapons System Engineering Support Guidance, Navigation, & Control Technology

C.1 Scope

This statement of work provides for engineering support to the Missile Systems Division (G20) in the development and analysis of guidance, navigation, and control technology as it relates to the current AEGIS Ballistic Missile Defense (AEGIS BMD) Program, the STANDARD Missile-3 (SM-3) Program, and various Precision Guided Munition and Weapons Technology programs underway within the Weapons Systems Department (G). The intent will be to provide engineering analysis and high fidelity digital computer simulations of these advanced systems suitable for integration into existing six degree-of-freedom (6DOF) missile computer models, and also to develop other analytical tools to verify and quantify achievable guidance, navigation, and control system performance on a variety of proposed weapon systems under development, as well as new conceptual designs of interest. These simulations will be used to support several concept development efforts by allowing system sensitivity and performance trade studies to be conducted to refine the designs. They will also be used to develop flight scenarios, mission planning and pre-test predictions to support various programs in progress. The overall engineering support task will be broken into five major subtasks:

- AEGIS BMD and SM-3 Block I Programs – Analysis & Simulation Support
- Extended Range Guided Munition Program – Analysis & Simulation Support
- Advanced Precision Guided Munition Programs – Analysis & Simulation Support
- Emerging Weapons Technology Programs – Analysis & Simulation Support
- Engineering Analysis & Simulation Support in the Aerospace Sciences

This support effort will build upon previous work performed under the AEGIS Leap Intercept (ALI) Program and the Extended Range Guided Munition (ERGM) Program and SM-3 Block I missile development program. In these efforts, tightly-coupled navigation systems, aided by the Global Positioning System (GPS) were developed by the Navy along with advanced GPS interference cancellation systems to mitigate the effects of enemy countermeasures. These systems, together with recent technology investigation programs, shall be the main focus of this work in order to support government direction and oversight of these programs. It is anticipated that several guidance, navigation, and control engineering tasks will be completed under this statement of work and these are enumerated below.

C.2 AEGIS BMD and SM-3 Block I Programs – Analysis & Simulation Support

The contractor shall be required to support the on-going AEGIS BMD and SM-3 Block I Programs in the area of navigation system modeling and simulation. This will include supporting the AEGIS BMD Navigation Working Group and Performance Prediction & Assessment Working Group (PPAWG), addressing several key technical issues regarding SM-3 navigation system performance that have been identified and are currently under study by G20 as well as other members of the SM-3 navigation community. It is essential that this involvement by NSWCDD continue at a high level in order to ensure that SM-3 navigation accuracy requirements are met consistent with program hardware delivery and flight test schedules. This task will include the modification and use of the G20 Monte Carlo Navigation Simulation (NAVSIM) and the use of the classified G20 SM-3 Monte Carlo Missile Six Degree-of-Freedom Simulation (SM-3 6DOF). These software programs will be required to perform studies in support of the AEGIS BMD Program including the continuing flight test series. The contractor will be required to

support G20 as it participates in major test programs associated with the SM-3 Block I Program and may be required to participate in off-site meetings.

In addition to supporting the immediate needs of the SM-3 Block I program, G20 is also tasked with the conduct of system definition studies to establish conceptual designs and performance requirements associated with Navy Sea-Based Ballistic Missile Defense. This effort is quite broad in scope in that it addresses the weapon system architectures required to target, track, and engage Tactical Ballistic Missile (TBM) threats using a variety of ship based and external targeting information and navigation system aiding. This project is focused on the design and development of a contingency ship-based ascent and midcourse ballistic missile intercept capability based on AEGIS, SM-3 and associated technologies and to provide a ship-based missile defense system designed to provide an ascent midcourse phase "hit-to-kill" technology in the FY 2004-2010 timeframe. The contractor will evaluate requirements for the combined use of SPY radar, GPS, and off-board sensors for aiding the interceptor inertial navigation system (INS) and assess proposed methods for eliminating system alignment errors and biases. The contractor will use and maintain the SM-3 NAVSIM computer simulation and the SM-3 6DOF simulation in performing studies in support of SM-3 Block I. The contractor will also be required to help develop and evaluate potential anti-jam (AJ) techniques which are applicable to Ballistic Missile Defense. These will include the development of Controlled Radiation Pattern Antenna (CRPA) anti-jam algorithms tailored to the SM-3 configuration and flight environment. The contractor will also assess the vulnerability of GPS to jamming and identify available signal processing techniques (such as Deeply Integrated GPS/INS) to mitigate its effect, and also show the value added of these advanced anti-jam technologies. Studies may also assess the ability of TBM interceptors to operate in an autonomous mode, utilizing GPS and off-board targeting data, without direct ship control.

C.3 Extended Range Guided Munition Program - Analysis & Simulation Support

The Missile Systems Division is also supporting the Naval Surface Fire Support Program and the Extended Range Guided Munition (ERGM) Development Program, for which advanced GPS/INS navigation and guidance systems are being developed. The contractor will be required to assist G20 in a variety of tasks which are focused on supporting the development and performance evaluation of the ERGM configuration and its associated navigation and guidance system. These evaluations will be performed using the ERGM 6DOF Monte Carlo computer model developed by G20, tailored by the contractor to meet specific study requirements. The contractor will be responsible for the simulation modifications and the conduct of particular studies, and where required, documentation detailing the results and conclusions of such studies. The contractor will assist G20 personnel to ensure that the current in-house 6DOF Monte Carlo ERGM flight simulation is a valid representation of the ERGM round and the Operational Flight Software. The contractor will also be required to assist G20 personnel in the development of new anti-jam cancellation models and their incorporation into various navigation simulations and 6DOF models. This work will include the incorporation and verification of full hemisphere antenna data into the current ERGM 6DOF flight simulation and possibly the development of new anti-jam algorithms which offer improved immunity to multiple jammers operating at arbitrary locations. These models will be used to generate statistical performance data which will quantify the level of anti-jam immunity afforded by the proposed anti-jam techniques. The contractor shall document the results of such studies through the use of engineering memoranda and presentation materials delivered to G20 personnel consistent with program needs and milestones.

C.4 Advanced Precision Guided Munition Programs – Analysis & Simulation Support

The Low Cost Guidance & Electronics Unit (LCGEU) Program, the Autonomous Naval Support Round (ANSR) Program, the Ballistic Trajectory Extended Range Munition (BTERM) Program, the BARRAGE Round Program, the Advanced Gun System (AGS), and the Electric Rail Gun Program represent a variety of new technologies applied to Precision Guided Munitions (PGMs) for Naval Surface Fire Support. The Naval Surface Warfare Center, Dahlgren Division (NSWCDD) has an on-going requirement to provide program direction and analysis support to these programs through the use of highly sophisticated computer simulations of the prototype projectile configurations and all guidance, navigation, and control (GNC) subsystems. There is currently a need to develop high fidelity simulations of guidance, navigation, and control subsystems which reflect the current state of development of the flight hardware and software. In coordination with the prime contractors and Navy program management, the contractor shall develop/modify computer simulations of the various PGM GNC subsystems described below.

C.4.1 Inertial Navigation System.

The contractor shall develop computer code describing the operation and functions of the PGM inertial navigation system. This may include the use of possibly unconventional INS architectures aimed at providing low cost performance, for example advanced micro-electro-mechanical systems (MEMS) technology and Accelerometer-only (A/O) GPS/INS processing. The simulation shall provide for high fidelity modeling and signal processing including high frequency sampling, quantization effects, sensor errors and dynamics where necessary.

C.4.2 Inertial Measurement Unit.

The contractor shall develop models of inertial measurement unit processing conforming to the particular PGM system architecture. This shall include the modeling of all sensor error sources such as bias, drift, misalignment and non-orthogonality, scale factor errors, white noise and random walk noise errors.

C.4.3 GPS/INS Navigation System.

Existing computer models of tightly-coupled GPS/INS navigation systems shall be modified by the contractor to conform to particular PGM program specifications. These GPS receiver and navigation filter models shall include any additional signal processing enhancements specified by the developer and also include appropriate error sources associated with the GPS signal environment.

C.4.4 Flight Control System.

The contractor shall also develop a computer model of the PGM vehicle autopilot and embed this model in the existing six degree-of-freedom (6DOF) simulation of the prototype vehicle. This will include the description of the autopilot control topology, gain scheduling with respect to elapsed time, Mach number, and altitude, and also attitude capture and roll control. Based on information provided by the developer, the contractor shall also develop and implement computer code which simulates the Up-Determination Algorithm and the overall roll attitude capture process. As required, the contractor will address unique and unconventional control concepts such as single axis control of a spinning vehicle.

C.4.5 Anti-Jam Systems. The contractor will assist G-Department personnel in the development of specified PGM anti-jam system models and their incorporation into the PGM 6DOF simulation. The anti-jam computer models will reflect any design changes proposed by the prime developing contractors. The work will require that the anti-jam model be implemented (antenna and signal processing) in the appropriate vehicle 6DOF Monte Carlo simulation so that it may be used to generate statistical performance data to quantify the level of anti-jam immunity afforded by the proposed anti-jam technique.

C.4.6 Guidance Systems. The contractor will be required to assist G-Department personnel in the development and implementation of PGM guidance algorithms utilized by the PGM avionics system. An example of one guidance techniques is the *Forward Integrated Terminal States* (FITS) guidance algorithm utilized by the ANSR system. This guidance method uses the projected miss distance along with estimates of current time-to-go along a ballistic trajectory, to form guidance commands which are then transformed to a suitable guidance frame, without benefit of explicit vehicle attitude information. An alternative guidance technique, termed CNS Guidance, is also a candidate for advanced PGM systems. The contractor will be required to implement FITS, CNS or alternate guidance schemes as defined by G-Department personnel and provide for the definition and use of suitable coordinate frames of reference and dynamical variables needed for a successful implementation of these guidance algorithms.

C.5 Emerging Weapons Technology Programs – Analysis & Simulation Support

A number of emerging weapons technology programs are currently engaged in the task of demonstrating the feasibility of highly accurate guidance, navigation, and control systems for various Naval Surface Fire Support and Ship Self Defense missions against fixed and highly mobile targets. Examples of candidate systems being investigated under these technology programs include: defense against the Asymmetric Threat, concepts for Mission Responsive Ordnance, Affordable Missile and Multi-Mission Missile concepts, Vertical Launched Autonomous Assault System, and advanced Naval Surface Fire Support weapons and delivery systems. These technology programs focus on the application of existing and emerging technologies to newly identified threats as part of a broader Navy response. As such, topics of interest under this project can vary widely and encompass several aerospace disciplines. The contractor will be required to apply a broad range of aerospace technologies and skills

including the preliminary design and three dimensional modeling of candidate missile configurations, the estimation of aerodynamic characteristics of such candidates, and flight dynamic modeling and simulation to establish levels of achievable performance. Such topics may include missile or precision guided munition preliminary design, autopilot design and implementation, GPS/INS navigation system design, as well as terminal homing guidance for vehicles possessing terminal sensors. The contractor will be required to support these technology programs by assisting G20 personnel in conducting studies of various guidance, navigation, and control technologies in Naval Surface Fire Support and/or Ship Self Defense environments. This will include determining the GPS/INS system requirements which will be required to achieve precise navigational accuracy in an operational environment, including enemy jamming. Using available aerodynamic and configurational estimates of candidate airframes, the contractor will be required to incorporate these data into existing simulations which will be used to support technology studies. The contractor will be required to help design and implement suitable multivariable estimation filters which will be used for various guidance, navigation, and control functions as directed by program management. The contractor shall be required to assist G20 personnel in developing GPS/INS navigation system computer models which will be used to define navigation system architectures suitable for precision navigation and evaluate navigation accuracy over anticipated mission profiles. The contractor will be required to document the results of these engineering studies in a variety of forms ranging from informal presentation materials to technical papers presented at professional society meetings.

C.6 Engineering Analysis & Simulation Support in the Aerospace Sciences

In addition to the above missile and precision guided munition programs, the Missile Systems Division is often tasked with the development and application of new technologies to new weapon systems which are designed in response to threats not yet defined. In this regard, the contractor will be required to provide engineering support to the Missile Systems Division over a broad range of aerospace-related disciplines, as it develops and applies new technologies, including: GPS/INS navigation technology, modern multivariable control methods, advanced filtering and estimation techniques, advanced signal processing, missile preliminary design, three dimensional modeling, aerodynamics and flight mechanics, all utilizing modern computation methods and computer programming. Examples of this support might include the development of novel concepts of aided inertial navigation systems, the design and simulation of guidance system in-flight alignment algorithms, or the development and assessment of various terminal homing concepts for the engagement of highly mobile land and sea targets. Additional tasks may also include the application of advanced GPS/INS navigation Deep Integration technology to existing GPS/INS weapon navigation systems for the purpose of demonstrating possible enhancements in weapon system anti-jam immunity.

C.7 Deliverables - The principal deliverables of this task shall be engineering analyses and flight simulation software, delivered to the Government, with documentation detailing the development and use of the software. The contractor shall provide monthly status reports defining work accomplished during the month and milestones for the upcoming period. Deliverable items will also consist of technical reports and briefing materials, describing the results of technical studies, to be provided at the request of Navy program management. The contractor is expected to deliver technical documentation of the highest quality, in a format suitable for distribution as specified by the Government. This documentation shall consist of text, mathematical equations, graphical illustrations, and data plots. The contractor shall implement rigorous quality control screening of documents prepared under this tasking. Documents submitted as finals shall be ready for review by NSWCDD senior technical staff and managers.

C.8 Period of Performance - This contract shall consist of a three year period, which may be funded incrementally at the discretion of the government. The period of performance of the base contract shall be date of award for 3 years.

C.9 Government Furnished Information - The Government will provide access to technical information relevant to the effort, technical reports, existing simulation software, and access to technical personnel for the purpose of coordination and technical direction.

C.10 Contractor Furnished Equipment - The Contractor shall furnish all computers, printers, scanners, plotters, software and other appropriate ADP equipment required to produce professional, quality documentation.

Ddl-C21 COPYRIGHT OF COMPUTER SOFTWARE

The contractor shall: (1) apply for copyright registration of the computer program code developed by the contractor, (2) place the copyright notice on the screen, in addition to the diskettes and manuals produced, and (3) place, next to the copyright notice, the additional phrase: "The U. S. Government has rights as specified in contract N00178-02-C-1021."

Ddl-C40 INFORMATION SYSTEMS (IS) SECURITY AND ACCREDITATION**Contractor Provision of IS Resources**

Except in special circumstances explicitly detailed elsewhere in this document, the Contractor shall provide all IS resources needed in the performance of this contract. IS resources include, but are not limited to, computers, software, networks, and addresses.

Contractor Use of NSWCD IS Resources

In the event that the contractor is required to have access to NSWCD IS resources, the login name (common id) and associated information shall be registered with the NSWCD site issuing authority.

If this contract requires that the contractor be granted access and use of NSWCD IS resources (at any site), the IS shall be accredited for contractor use in accordance with procedures specified by the IS Security Office. The accreditation shall include COR certification that the use and access is required by this contract.

Connections Between NSWCD and Contractor Facilities

If there is a requirement (specifically delineated elsewhere in this contract) for interconnection between any facilities and/or ISs owned or operated by the contractor, such interconnection shall take place only after approval from the NSWCD IS Security Office. All such connections as well as the ISs connected thereto will be accredited (operated at an acceptable risk) by the appropriate NSWCD Designated Approving Authority (DAA) and comply with the requirements of DODDIR 5200.28 regarding Memorandums of Agreement. All such connections will be made outside the appropriate NSWCD firewall.

Accreditation of Contractor-owned ISs

The Government reserves the right to have all contractor owned ISs used in the performance of this contract accredited by the cognizant DAA.

Use of Contractor Personnel to Perform IS Security Tasking

General – Personnel performing IS security related tasking must have successfully completed training and demonstrate proficiency in the following areas: Information System Security Awareness, Security Domains, Incident Handling, and Auditing Concepts.

Architecture Specific – Personnel assigned to perform IS security related tasking for a specific area must be trained and demonstrate proficiency in that area. Typical examples include, but are not limited to: networking, processing classified information, Internet Protocols, Unix, Novell, and Microsoft operating systems.

Replacement or New IS Security Personnel - The contractor shall provide evidence that new and replacement IS personnel, unless they are Key Personnel, meet the above requirements and forward such information to the COR for review and approval by the Information Systems Security Office. Failure to meet the requirements herein may result in rejection of the person or persons. Replacement of IS personnel designated as Key Personnel will be in accordance with the Key Personnel provision contained herein.

Ddl-C41 TERMINATION OF EMPLOYEES WITH NSWCDD BASE ACCESS

The contractor shall insure that all employees who have a NSWCDD badge and/or bumper sticker turn-in the badge and remove the bumper sticker immediately upon termination of their employment under this contract. The above requirement shall be made a part of the standard employee facility clearance procedures for all separated personnel. The contractor shall advise NSWCDD Physical Security of all changes in their contract personnel requiring NSWCDD base access.

For involuntarily separated personnel and those separated under adverse circumstances, the contractor shall notify NSWCDD Physical Security in advance of the date, time and location where the NSWCDD representative may physically remove the employee's automobile bumper sticker and retrieve the NSWCDD badge prior to the employee departing the contractor's facility. In the event the employee is separated in his or her absence, the contractor shall immediately notify NSWCDD Physical Security of the separation and make arrangements between the former employee and NSWCDD Physical Security for the return of the badge and removal of the sticker.

HQ C-2-0011 COMPUTER SOFTWARE AND/OR COMPUTER DATABASE(S) DELIVERED TO AND/OR RECEIVED FROM THE GOVERNMENT (NAVSEA) (NOV 1996)

(a) The Contractor agrees to test for viruses all computer software and/or computer databases, as defined in the clause entitled "RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION" (DFARS 252.227-7014), before delivery of that computer software or computer database in whatever media and on whatever system the software is delivered. The Contractor warrants that any such computer software and/or computer database will be free of viruses when delivered.

(b) The Contractor agrees to test any computer software and/or computer database(s) received from the Government for viruses prior to use under this contract.

(c) Unless otherwise agreed in writing, any license agreement governing the use of any computer software to be delivered as a result of this contract must be paid-up and perpetual, or so nearly perpetual as to allow the use of the computer software or computer data base with the equipment for which it is obtained, or any replacement equipment, for so long as such equipment is used. Otherwise the computer software or computer data base does not meet the minimum functional requirements of this contract. In the event there is any routine to disable the computer software or computer data base in the future, that date certain shall not be less than 25 years after the delivery date of the computer software or computer database.

(d) No copy protection devices or systems shall be used in any computer software or computer database delivered under this contract to restrict or limit the Government from making copies. This does not prohibit license agreements from specifying the maximum amount of copies that can be made.

(e) Delivery by the Contractor to the Government of certain technical data and other data is now frequently required in digital form rather than as hard copy. Such delivery may cause confusion between data rights and computer software rights. It is agreed that, to the extent that any such data is computer software by virtue of its delivery in digital form, the Government will be licensed to use that digital-form data with exactly the same rights and limitations as if the data had been delivered as hard copy.

(f) Any limited rights legends or other allowed legends placed by a Contractor on technical data or other data delivered in digital form shall be digitally included on the same media as the digital-form data and must be associated with the corresponding digital-form technical data to which the legends apply to the extent possible. Such legends shall also be placed in human-readable form on a visible surface of the media carrying the digital-form data as delivered, to the extent possible.

HQ C-2-0014 CONTRACTOR'S PROPOSAL (NAVSEA) (SEP 1990)

(a) Performance of this contract by the Contractor shall be conducted and performed in accordance with detailed obligations to which the Contractor committed itself in Proposal * dated * in response to NSWCDD Solicitation No. N00178-04-C-1006.

(b) The technical volume(s) of the Contractor's proposal is incorporated by reference and hereby made subject to the provisions of the "ORDER OF PRECEDENCE" (FAR 52.215-8) clause of this contract. Under the "ORDER OF PRECEDENCE" clause, the technical volume of the Contractor's proposal referenced herein is hereby designated as item (f) of the clause, following "the specification" in the order of precedence.

*To be completed at time of Award.

SECTION D Packaging and Marking

CLAUSES INCORPORATED BY FULL TEXT

Ddl-D10 PREPARATION FOR SHIPMENT (COMMERCIALY PACKAGED ITEMS)

Preservation, packaging, packing, and marking shall be in accordance with ASTM Designation D 3951-95 "Standard Practice for Commercial Packaging." The following additional markings apply: : NONE.

HQ D-1-0001 DATA PACKAGING LANGUAGE

All unclassified data shall be prepared for shipment in accordance with best commercial practice.

Classified reports, data, and documentation shall be prepared for shipment in accordance with National Industrial Security Program Operating Manual (NISPOM), DOD 5220.22-M dated January 1995.

HQ D-2-0008 MARKING OF REPORTS (NAVSEA) (SEP 1990)

All reports delivered by the Contractor to the Government under this contract shall prominently show on the cover of the report:

- (1) Name and business address of the Contractor
- (2) N00178-04-C-1006
- (3) Contract dollar amount
- (4) non-competitively awarded
- (5) Sponsor: Ernest Ohlmeyer
Code: G23
Dahlgren Division
Naval Surface Warfare Center
17320 Dahlgren Road
Dahlgren, Virginia 22448-5100

SECTION E Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government

CLAUSES INCORPORATED BY REFERENCE:

52.246-3	Inspection Of Supplies Cost-Reimbursement	MAY 2001
52.246-5	Inspection Of Services Cost-Reimbursement	APR 1984
52.246-8	Inspection Of Research And Development Cost Reimbursement	MAY 2001
252.246-7000	Material Inspection And Receiving Report	DEC 1991

SECTION F Deliveries or Performance

DELIVERY INFORMATION

CLINS	DELIVERY DATE	UNIT OF ISSUE	QUANTITY	FOB	SHIP TO ADDRESS
0001	POP Date of award through Lot 3 years			Dest.	N00178 NSWCDD COR/ OHLMEYER G23 17320 DAHLGREN ROAD DAHLGREN VA 22485-5100 Same as CLIN 0001
0002	POP Date of award through Lot 3 years				

CLAUSES INCORPORATED BY REFERENCE:

52.242-15 Alt I Stop-Work Order (Aug 1989) - Alternate I	APR 1984
52.247-34 F.O.B. Destination	NOV 1991

CLAUSES INCORPORATED BY FULL TEXT

Ddl-F20 RECEIVING HOURS OF OPERATION

All deliveries to the Receiving Officer, Dahlgren Division, Naval Surface Warfare Center, Dahlgren, VA shall be made Monday through Friday from 7:00 a.m. to 2:30 p.m., local time. Deliveries will not be accepted after 2:30 p.m. No deliveries will be made on government holidays.

Ddl-F40 CONTRACTOR NOTICE REGARDING LATE DELIVERY

In the event the contractor anticipates or encounters difficulty in complying with the contract delivery schedule or date, he/she shall immediately notify, in writing, the Contracting Officer and the cognizant Contract Administration Services Office, if assigned. The notice shall give the pertinent details; however such notice shall not be construed as a waiver by the Government of any contract delivery schedule, or of any rights or remedies provided by law or under this contract.

SECTION G Contract Administration Data

CLAUSES INCORPORATED BY FULL TEXT**Ddl-G1 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS**

The payment office shall ensure that each payment under this contract is made in accordance with the accounting classification reference numbers (ACRNs) shown on each individual invoice. ACRNs are cited by the contractor on each invoice in accordance with clause 5252.232-9000, 5252.232-9001, or 5252.232-9003, as appropriate.

Ddl-G10 GOVERNMENT CONTRACT ADMINISTRATION POINTS-OF-CONTACT AND RESPONSIBILITIES**Procuring Contracting Officer (PCO):**

- (a) Name: Gary W. Byram
 Address: Code: XDS116
 Dahlgren Division
 Naval Surface Warfare Center
 17320 Dahlgren Road
 Dahlgren, Virginia 22448-5100
 Phone: (540) 653-7478; FAX: (540) 653-7088
 E-mail: ByramGW@nswc.navy.mil

(b) PCO responsibilities are outlined in FAR 1.602-2. The PCO is the only person authorized to approve changes in any of the requirements of this contract or orders issued thereunder and, notwithstanding provisions contained elsewhere in this contract, the said authority remains solely the PCO's. The contractor shall not comply with any order, direction or request of Government personnel unless it is issued in writing and signed by the Contracting Officer or is pursuant to specific authority otherwise included as part of this contract. In the event the contractor effects any change at the direction of any person other than the PCO, the change will be considered to be unauthorized.

Contract Specialist:

- (a) Name: Linda D. Wilkes
 Address:Code: XDS112
 Dahlgren Division
 Naval Surface Warfare Center
 17320 Dahlgren Road
 Dahlgren, Virginia 22448-5100
 Phone: (540) 653-7478; FAX: (540) 653-7088
 E-mail: wilkesld@nswc.navy.mil

(b) The Contract Specialist is the representative of the Contracting Officer for all contractual matters.

Administrative Contracting Officer (ACO)

- (a) Name: [*]
 Address: [*]
 Phone: [*]

(b) The Administrative Contracting Officer (ACO) of the cognizant Defense Contract Management Agency (DCMA) is designated as the authorized representative of the Contracting Officer for purposes of administering this contract in accordance with FAR 42.3. However, in view of the technical nature of the supplies and services to be furnished, technical cognizance is retained by the Naval Surface Warfare Center, Dahlgren Division.

[*] -- to be completed at contract award

Contracting Officer's Representative (COR):

(a) Name: Ernest Ohlmeyer
 Code: G23
 Dahlgren Division
 Naval Surface Warfare Center
 17320 Dahlgren Road
 Dahlgren, Virginia 22448-5100
 Phone: (540) 653-4960
 E-mail: OhlmeyerEJ@nswc.navy.mil

(b) The COR is the PCO's appointed representative for technical matters. The COR is not a contracting officer and does not have the authority to direct the accomplishment of effort which is beyond the scope of the contract or to otherwise change any contract requirements. An informational copy of the COR appointment letter which provides a delineation of COR authority and responsibilities is provided as an attachment to this contract.

Paying Office

(a) Name: [*]
 Address: [*]
 Phone: [*]

(b) The Paying Office makes all payments under the contract.

(c) *(DFAS Charleston only)* For the status of invoices and for payments of all types of commercial orders, contact DFAS Charleston Operation, Customer Service, Charleston, S.C. on (800) 755-3642 or (843) 746-6211. The office is open from 8:00 AM to 4:00 PM local time.

[*] -- to be completed at contract award

Ddl-G40 PAYMENT, SELECTED ITEMS OF COST REIMBURSEMENT CONTRACTS

(a) Travel Costs (Including Foreign Travel)

(1) Air: The contractor shall, to the maximum extent practicable, minimize overall travel costs by taking advantage of discounted airfare rates available through advance purchase. Charges associated with itinerary changes and cancellation under nonrefundable airline tickets are reimbursable as long as the changes are driven by the work requirement.

(2) Non-reimbursable Travel: The following travel shall not be reimbursed hereunder: travel performed for personal convenience, daily travel to and from work at the contractor's facility (i.e., designated work site) or to and from NSWCDD when NSWCDD is the designated work site.

(b) Training

The Government will not allow costs, nor reimburse costs associated with the contractor training employees in an effort to attain and/or maintain minimum personnel qualification requirements of this contract. Other training may be approved on a case-by-case basis by the COR. Attendance at workshops or symposiums is considered training for purposes of this clause.

(c) General Purpose Office Equipment (GPOE) and Information Technology (IT)

The cost of acquisition of GPOE and IT shall not be allowable as direct charges to this contract. The contractor is expected to have the necessary facilities to perform the requirements of this contract, including any necessary GPOE and IT. GPOE means equipment normally found in a business office such as desks, chairs, typewriters, calculators, file cabinets, etc. IT means any equipment or interconnected system or subsystem of equipment that is used in the automatic acquisition, storage, manipulation, movement, control, display, switching, interchange, transmission, or reception of data or information. IT includes computers, ancillary equipment, software, firmware and similar products, services (including support services), and related resources.

Ddl-G41 PAYMENT OF FIXED FEE (COST PLUS FIXED FEE)

(a) Subject to the withholding provisions of this clause, and any other adjustments required by other contract clauses, the fixed fee shall be paid in installments.

(b) The amount of each fee installment shall be billed at * % of allowable costs. This percentage reflects the ratio of total contract fixed fee to total contract estimated cost.

(c) In accordance with FAR 52.216-8 FIXED FEE in Section I of this contract, the Contracting Officer has established a withholding of 15% of funded fixed fee, not to exceed \$100,000. The contractor's provisional payment vouchers may invoice fee at the percentage cited in paragraph (b) above, up to 85% of the funded fixed fee.

* Negotiated fixed fee rate

5252.232-9001 SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE) (JUL 1992)

(a) "Invoice" as used in this clause includes contractor requests for interim payments using public vouchers (SF 1034) but does not include contractor requests for progress payments under fixed price incentive contracts.

(b) The Contractor shall submit invoices and any necessary supporting documentation, in an original and 3 copies, to the contract auditor at the following address:

Defense Contract Audit Agency

Hampton Roads Branch Office

5200 West Mercury Bldg., Suite 291

Hampton, VA 23605-1445---- unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order. In addition, an information copy shall be submitted to the COR; Contract Specialist; NSWCDD/XDM241. Following verification, DCAA Huntsville Branch Office will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clause(s) of this contract.

(c) Invoices requesting interim payments shall be submitted no more than once every two weeks, unless another time period is specified in the Payments clause of this contract. For indefinite delivery type contracts, interim payment invoices shall be submitted no more than once every two weeks for each delivery order. There shall be a lapse of no more than 30 calendar days between performance and submission of an interim payment invoice..

(d) In addition to the information identified in the Prompt Payment clause herein, each invoice shall contain the following information, as applicable:

(1) Contract line item number (CLIN)

- (2) Subline item number (SLIN)
 - (3) Accounting Classification Reference Number (ACRN)
 - (4) Payment terms
 - (5) Procuring activity
 - (6) Date supplies provided or services performed
 - (7) Costs incurred and allowable under the contract
 - (8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided
- (e) A DD Form 250, "Material Inspection and Receiving Report",
_____ is required with each invoice submittal.
 X is required only with the final invoice.
_____ is not required.
- (f) A Certificate of Performance
 X shall be provided with each invoice submittal.
_____ is not required.
- (g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.
- (h) Costs of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLINS/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.
- (i) When a vendor invoice for a foreign currency is provided as supporting documentation, the Contractor shall identify the foreign currency and indicate on the vendor invoice the rate of exchange on the date of payment by the Contractor. The Contractor shall also attach a copy of the bank draft or other suitable documents showing the rate of exchange. The contractor shall provide an English translation if the vendor invoice is written in a foreign language.

SECTION H Special Contract Requirements**CLAUSES INCORPORATED BY FULL TEXT****Ddl-H10 EMPLOYMENT OF US GOVERNMENT PERSONNEL RESTRICTED**

In performing this contract, the Contractor shall not use as a consultant or employ (on either a full or part time basis) any active duty U.S. Government personnel (civilian or military) without the prior written approval of the Contracting Officer. Such approval may be given only in circumstances where it is clear that no laws and no DoD or U.S. Government instructions, regulations, or policies might possibly be contravened and no appearance of a conflict of interest will result.

Ddl-H11 CHANGES IN KEY PERSONNEL

(a) The Contractor agrees that a partial basis for award of this contract is the list of key personnel proposed. Accordingly, the Contractor agrees to assign to this contract those key persons whose resumes were submitted with the proposal necessary to fulfill the requirements of the contract. No substitution shall be made without prior notification to and concurrence of the Contracting Officer in accordance with this requirement.

(b) The contractor agrees that during the first ninety days of the period of performance no key personnel substitutions will be permitted unless such substitutions are necessitated by an individual's sudden illness, death, or termination of employment. All proposed substitutions shall have qualifications equal to or higher than the qualifications of the person to be replaced. The Contracting Officer shall be notified in writing of any proposed substitution at least forty-five (45) days, or ninety (90) days if a security clearance is to be obtained, in advance of the proposed substitution. Such notification shall include:

- (1) An explanation of the circumstances necessitating the substitution;
- (2) A complete resume of the proposed substitute;
- (3) The hourly rates of the incumbent and the proposed substitute; and
- (4) Any other information requested by the Contracting Officer to enable him/her to judge whether or not the Contractor is maintaining the same high quality of personnel that provided the partial basis for award.

(c) In the event a requirement to increase the specified level of effort for a designated labor category, but not the overall level of effort of the contract, occurs, the Contractor shall submit to the Contracting Officer a written request for approval to add personnel to the designated labor category. The same information as specified in paragraph (b) above is to be submitted with the request.

(d) The Contracting Officer shall evaluate requests for changes in personnel and promptly notify the Contractor, in writing, whether the request is approved or disapproved.

Ddl-H13 POST AWARD CONTRACTOR PERSONNEL APPROVAL

Requests for post award approval of additional and/or replacement key and non-key personnel may be submitted via e-mail. E-mail submissions shall be made simultaneously to the Contract Specialist, wilkesld@nswc.navy.mil and the Contracting Officer's Representative (COR), ohlmeyerej@nswc.navy.mil. Electronic notification via e-mail from the Contract Specialist will serve as written approval/disapproval on behalf of the Contracting Officer.

Ddl-H14 KEY PERSONNEL – DESIRED QUALIFICATIONS

To perform the requirements of the Statement of Work, the Government desires personnel with the following experience qualifications:

Experience – The desired experience for each position is listed below; this experience must be directly related to the tasks and programs listed in the statement of work. In addition to the experience listed below, general experience in engineering, computer science, mathematics, physical science, or another field appropriate to the labor category employing skills that apply to the accomplishment of the technical objectives of the statement of work is a plus and will be favorably considered (such experience may not necessarily meet the desired qualifications listed below), as will experience utilizing automated systems, including personal computers/workstations and basic software applications such as word processors, spreadsheets, graphics/presentation packages, databases, and e-mail.

Senior Engineer

- Senior level technical expert in the following aerospace disciplines:
 - Missile and projectile flight mechanics
 - Multivariable flight control systems
 - Guidance systems
 - Inertial navigation systems
 - Global Positioning System (GPS)
 - Inertial Measurement Units
 - Estimation & Filtering
- Highly specialized knowledge and experience gained as a result of personally developing substantial parts of the Standard Missile-3 (SM-3), Extended Range Guided Munition (ERGM), Autonomous Naval Support Round (ANSR) and Mission Responsive Ordnance (MRO) Navigation and Flight Simulations.
- Extensive hands-on experience with the above simulations and the ability to rapidly modify them to reflect new design changes and to perform special studies of interest to Government, without a significant learning curve.
- Detailed knowledge of the technical design and operation of the SM-3, ERGM, ANSR and MRO weapon systems.
- Highly proficient in writing scientific computer programs in the FORTRAN language.
- Ability to write detailed scientific documentation which can undergo peer review and is suitable for external publication and presentation at national conferences.

Ddl-H16 RESUME FORMAT AND CONTENT REQUIREMENTS

All resumes submitted under this contract shall be provided in the following format.

- (a) COMPLETE NAME
- (b) CONTRACT LABOR CATEGORY
- (c) CONTRACTOR'S LABOR CATEGORY

(d) CURRENT EMPLOYER

(e) AVAILABILITY (state as a percentage of a total manyear. Note whether individual is proposed or is working as a key person on another requirement and, if so, provide explanation as to how both requirements will be satisfied).

(f) LEVEL OF SECURITY CLEARANCE

(g) CURRENT WORK LOCATION

(h) PLANNED WORK LOCATION (If the planned work location is other than the offeror's primary location supporting this effort, the nature of the proposed individual's planned contribution shall be discussed.)

(i) WORK EXPERIENCE -- Show experience and dates as follows:

Name of Employer; 6 years 4 mos.; 10/91 - 2/98; Position Title

Work experience shall be presented in separate paragraphs, clearly marked with proper category of experience (Qualifying Experience; Non-Relevant Experience -- If relevant and non-relevant experience was obtained while at the same employer, separate time periods shall be noted for each assignment.) All qualifying experience shall be presented in a level of detail that will permit the evaluator to make a clear connection between the experience and the stated qualifications for the labor category. Specific examples of work assignments, accomplishments, and products shall be provided. Phrases such as "assisted with", "participated in", or "supported" are unacceptable except as introductory to a detailed description of the actual work performed. In addition, the resume for the Project Manager shall list previous contracts or tasks under which he/she had technical and management responsibility including contract number and customer point of contact.

All military experience claimed shall be described such that each tour is treated as a separate employer. Time frames/titles/ responsibilities shall be provided at the level of detail proscribed by above. Military experience not documented in this manner may not be considered.

Contractors shall avoid gaps in experience as time unaccounted for may lead to confusion and need for clarification.

The cut-off date for any experience claimed shall be the date the resume is certified (see paragraph (k) below).

(j) EDUCATION -- Show all post-secondary as follows:

Degree(s); Date(s); Institution; Major/Minor

If non-degreed, if the degree is in an unrelated field, or if formal training falls short of a degree, the Government may evaluate additional specific experience/education substituted in lieu of the degree qualification. Such work experience(s) shall be described at the level of detail discussed above or it may not be evaluated. Experience cited as a substitute for the degree qualification may not also be credited toward fulfillment of labor category experience requirements. Specific classes submitted for consideration shall be identified together with applicable training institution and completion date.

(k) CERTIFICATION -- A certification of correctness of information signed and dated by both the person named and the contractor. The employee certification shall include the following statement: CERTIFICATION: "I certify that the education and experience described herein is complete and accurate in all respects. I consent to the disclosure of my resume for NSWCCD Solicitation/Contract N00178-04-R-1006 by Aerospace Technology Inc. and intend to make myself available to work under the contract to the extent proposed."

Employee Signature and Date

Contractor Signature and Date

Resumes without this certification will be unacceptable and will not be considered. The employee and contractor certifications shall not be dated earlier than the issue date of this solicitation or effective date of contract, as appropriate.

If the employee is not a current employee of the contractor (or a subcontractor), a copy of the accepted offer letter (which identifies a projected start date and the agreed to annual salary) shall be provided.

Ddl-H40 FUNDING PROFILE

It is estimated that these incremental funds will provide for [*] The following details funding to date:

Total				
Contract	Funds This	Previous	Funds	Balance
CPFF	Action	Funding	Available	Unfunded

[To be completed at time of award.]

* if LOE enter the number of hours; if completion or supply enter items and quantities.

Ddl-H43 REQUIRED INSURANCE

(a) The following types of insurance are required in accordance with the clause entitled "INSURANCE - LIABILITY TO THIRD PERSONS" and shall be maintained in the minimum amounts shown:

(1) Comprehensive General Liability: \$100,000 per person and \$500,000 per accident for bodily injury. No property damage general liability insurance is required.

(2) Automobile Insurance: \$200,000 per person and \$500,000 per accident for bodily injury and \$20,000 per accident for property damage. Comprehensive form of policy is required.

(3) Standard Workmen's Compensation and Employer's Liability Insurance (or, where maritime employment is involved, Longshoremen's and Harbor Worker's Compensation Insurance) in the minimum amount of \$100,000.

(b) The policies for such insurance shall contain an endorsement that cancellation or material change in the policies, adversely affecting the interest of the Government in such insurance, shall not be effective unless the Contracting Officer approves such cancellation or change. When the coverage is provided by self-insurance, prior approval of the Administrative Contracting Officer is required for any change or decrease in coverage.

Ddl-H45 ENGINEERING CHANGES

(a) After contract award, the Government may solicit, and the Contractor is encouraged to propose independently, engineering changes to the equipment, software specifications, or other requirements of this contract. These changes may be proposed to save money, to improve performance, to incorporate new technology, to save energy, or to satisfy increased data processing requirements. If the proposed changes are acceptable to both parties, the Contractor shall submit a priced change proposal to the Government for evaluation. Those proposed engineering changes that are acceptable to the Government will be processed as modifications to the contract.

(b) This ENGINEERING CHANGES clause applies only to those proposed changes identified by the Contractor, as a proposal submitted pursuant to the provisions of this clause. As a minimum, the following information shall be submitted by the Contractor with each proposal:

- (1) A description of the difference between the existing contract requirement and the proposed change, and the comparative advantages and disadvantages of each;
 - (2) Itemized requirements of the contract which must be changed if the proposal is adopted, and the proposed revision to the contract for each such change;
 - (3) An estimate of the changes in performance and cost, if any, that will result from adoption of the proposal;
 - (4) An evaluation of the effects the proposed change would have on collateral costs to the Government, such as Government-furnished property costs, costs of related items, and costs of maintenance and operation; and
 - (5) A statement of the time by which the change order adopting the proposal must be issued so as to obtain the maximum benefits of the change(s) during the remainder of this contract. Also, any effect on the contract completion time or delivery schedule shall be identified.
- (c) Engineering change proposals submitted to the Contracting Officer shall be processed expeditiously. The Government shall not be liable for proposal preparation costs or any delay in acting upon any proposal submitted pursuant to this clause. The Contractor has the right to withdraw, in whole or in part, any engineering change proposal not accepted by the Government within the period specified in the engineering change proposal. The decision of the Contracting Officer as to the acceptance of any such proposal under this contract shall be final.
- (d) The Contracting Officer may accept any engineering change proposal submitted pursuant to this clause by giving the Contractor written notice thereof. This written notice may be given by issuance of a modification to this contract. Unless and until a modification is executed to incorporate an engineering change proposal under this contract, the Contractor shall remain obligated to perform in accordance with the terms of the existing contract.
- (e) If an engineering change proposal submitted pursuant to this clause is accepted and applied to this contract, an equitable adjustment in the contract price and in any other affected provisions of this contract shall be made in accordance with this clause and other applicable clauses of this contract. When the cost of performance of this contract is increased or decreased as a result of the change, the equitable adjustment increasing or decreasing the contract price shall be in accordance with the "CHANGES" clause rather than under this clause, but the resulting contract modification shall state that it is made pursuant to this clause.
- (f) The Contractor is requested to identify specifically any information contained in the engineering change proposal which the Contractor considers confidential and/or proprietary and which the Contractor prefers not be disclosed to the public. The identification of information as confidential and/or proprietary is for informational purposes only and shall not be binding on the Government to prevent disclosure of such information. Offerors are advised that such information may be subject to release upon request pursuant to the Freedom of Information Act (5 U.S.C. 552)

Ddl-H50 NOTICE OF INCORPORATION OF SECTION K

Section K of the solicitation (Representation, Certifications and Other Statements of Offerors) will not be distributed with the contract; however, it is incorporated in and forms a part of the resultant contract as though furnished in full text therewith.

SEA 5252.216-9122 LEVEL OF EFFORT (DEC 2000)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in Sections B and C of this contract. The total level of effort for the performance of this contract shall be 100% of the total man-hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort.

(b) Of the total man-hours of direct labor set forth above, it is estimated that _____ (Offeror to fill-in) man-hours are uncompensated effort.

Uncompensated effort is defined as hours provided by personnel in excess of 40 hours per week without additional compensation for such excess work. All other effort is defined as compensated effort. If no effort is indicated in the first sentence of this paragraph, uncompensated effort performed by the Contractor shall not be counted in fulfillment of the level of effort obligations under this contract.

(c) Effort performed in fulfilling the total level of effort obligations specified above shall only include effort performed in direct support of this contract and shall not include time and effort expended on such things as (local travel to and from an employee's usual work location), uncompensated effort while on travel status, truncated lunch periods, work (actual or inferred) at an employee's residence or other non-work locations (except as provided in paragraph (j) below), or other time and effort which does not have a specific and direct contribution to the tasks described in Sections B and C.

(d) The level of effort for this contract shall be expended at an average rate of approximately (to be completed at time of Award) hours per week. It is understood and agreed that the rate of man-hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total man-hours of effort prior to the expiration of the term hereof, except as provided in the following paragraph.

(e) If, during the term hereof, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total man-hours of effort specified above would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fee together with an offer, setting forth a proposed level of effort, cost breakdown, and proposed fee, for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(f) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total man-hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(g) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the period of this contract, the Contracting Officer, at its sole discretion, shall either (i) reduce the fee of this contract as follows:

$$\text{Fee Reduction} = \text{Fee} \frac{(\text{Required LOE} - \text{Expended LOE})}{\text{Required LOE}}$$

or (ii) subject to the provisions of the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable, require the Contractor to continue to perform the work until the total number of man-hours of direct labor specified in paragraph (a) above shall have been expended, at no increase in the fee of this contract.

(h) The Contractor shall provide and maintain an accounting system, acceptable to the Administrative Contracting Officer and the Defense Contract Audit Agency (DCAA), which collects costs incurred and effort (compensated and uncompensated, if any) provided in fulfillment of the level of effort obligations of this contract. The Contractor shall indicate on each invoice the total level of effort claimed during the period covered by the invoice, separately identifying compensated effort and uncompensated effort, if any.

(i) Within 45 days after completion of the work under each separately identified period of performance hereunder, the Contractor shall submit the following information in writing to the Contracting Officer with copies to the cognizant Contract Administration Office and to the DCAA office to which vouchers are submitted: (1) the total number of man-hours of direct labor expended during the applicable period; (2) a breakdown of this total showing the number of man-hours expended in each direct labor classification and associated direct and indirect costs; (3) a breakdown of other costs incurred; and (4) the Contractor's estimate of the total allowable cost incurred under the contract for the period. Within 45 days after completion of the work under the contract, the Contractor shall submit, in addition, in the case of a cost underrun; (5) the amount by which the estimated cost of this contract may be reduced to recover excess funds and, in the case of an underrun in hours specified as the total level of effort; and (6) a calculation of the appropriate fee reduction in accordance with this clause. All submissions shall include subcontractor information.

(j) Unless the Contracting Officer determines that alternative worksite arrangements are detrimental to contract performance, the Contractor may perform up to 10% of the hours at an alternative worksite, provided the Contractor has a company-approved alternative worksite plan. The primary worksite is the traditional "main office" worksite. An alternative worksite means an employee's residence or a telecommuting center. A telecommuting center is a geographically convenient office setting as an alternative to an employee's main office. The Government reserves the right to review the Contractor's alternative worksite plan. In the event performance becomes unacceptable, the Contractor will be prohibited from counting the hours performed at the alternative worksite in fulfilling the total level of effort obligations of the contract. Regardless of the work location, all contract terms and conditions, including security requirements and labor laws, remain in effect. The Government shall not incur any additional cost nor provide additional equipment for contract performance as a result of the Contractor's election to implement an alternative worksite plan.

(k) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish man-hours up to five percent in excess of the total man-hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fee is required.

SEA 5252.232-9104 ALLOTMENT OF FUNDS (MAY 1993)

(a) This contract is incrementally funded with respect to both cost and fee. The amount(s) presently available and allotted to this contract for payment of fee for incrementally funded contract line item number/contract subline item number (CLIN/SLIN), subject to the clause entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE" (FAR 52.216-10), as appropriate, is specified below. The amount(s) presently available and allotted to this contract for payment of cost for incrementally funded CLINs/SLINs is set forth below. As provided in the clause of this contract entitled "LIMITATION OF FUNDS" (FAR 52.232-22), the CLINs/SLINs covered thereby, and the period of performance for which it is estimated the allotted amount(s) will cover are as follows:

<u>ITEM(S)</u>	<u>ALLOTED TO COST</u>	<u>ALLOTED TO FEE</u>	<u>ESTIMATED PERIOD OF PERFORMANCE</u>
(To be completed at the time of Award)	\$	\$	

(b) The parties contemplate that the Government will allot additional amounts to this contract from time to time for the incrementally funded CLINs/SLINs by unilateral contract modification, and any such modification shall state separately

the amount(s) allotted for cost, the amount(s) allotted for fee, the CLINs/SLINs covered thereby, and the period of performance which the amount(s) are expected to cover.

(c) CLINs/SLINs _ are fully funded and performance under these CLINs/SLINs is subject to the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable.

(d) The Contractor shall segregate costs for the performance of incrementally funded CLINs/SLINs from the costs of performance of fully funded CLINs/SLINs.

SEA 5252.242-9115 TECHNICAL INSTRUCTIONS (APR 1999)

(a) Performance of the work hereunder shall be subject to written technical instructions signed by the Contracting Officer's Representative specified in Section G of this contract. As used herein, technical instructions are defined to include the following:

(1) Directions to the Contractor which suggest pursuit of certain lines of inquiry, shift work emphasis, fill in details or otherwise serve to accomplish the contractual statement of work.

(2) Guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of work description.

(b) Technical instructions must be within the general scope of work stated in the contract. Technical instructions may not be used to: (1) assign additional work under the contract; (2) direct a change as defined in the "CHANGES" clause of this contract; (3) increase or decrease the contract price or estimated contract amount (including fee), as applicable, the level of effort, or the time required for contract performance; or (4) change any of the terms, conditions or specifications of the contract.

(c) If, in the opinion of the Contractor, any technical instruction calls for effort outside the scope of the contract or is inconsistent with this requirement, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after the receipt of any such instruction. The Contractor shall not proceed with the work affected by the technical instruction unless and until the Contractor is notified by the Contracting Officer that the technical instruction is within the scope of this contract.

(d) Nothing in the foregoing paragraph shall be construed to excuse the Contractor from performing that portion of the contractual work statement which is not affected by the disputed technical instruction.

SECTION I Contract Clauses

CLAUSES INCORPORATED BY REFERENCE:

52.202-1	Definitions	DEC 2001
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	JUL 1995
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	JUN 1997
52.204-2	Security Requirements	AUG 1996
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	JUL 1995
52.211-5	Material Requirements	AUG 2000
52.211-15	Defense Priority And Allocation Requirements	SEP 1990
52.215-2	Audit and Records--Negotiation	JUN 1999
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-10	Price Reduction for Defective Cost or Pricing Data	OCT 1997
52.215-11	Price Reduction for Defective Cost or Pricing Data--Modifications	OCT 1997
52.215-12	Subcontractor Cost or Pricing Data	OCT 1997
52.215-13	Subcontractor Cost or Pricing Data--Modifications	OCT 1997
52.215-15	Pension Adjustments and Asset Reversions	DEC 1998
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	OCT 1997
52.215-19	Notification of Ownership Changes	OCT 1997
52.215-21	Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data--Modifications	OCT 1997
52.216-7	Allowable Cost And Payment	FEB 2002
52.216-8	Fixed Fee	MAR 1997
52.219-8	Utilization of Small Business Concerns	OCT 2000
52.219-9	Small Business Subcontracting Plan	JAN 2002
52.219-16	Liquidated Damages-Subcontracting Plan	JAN 1999
52.219-25	Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting	OCT 1999
52.222-3	Convict Labor	AUG 1996
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	SEP 2000
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	APR 2002
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era and Other Eligible Veterans	DEC 2001
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era and Other Eligible Veterans	DEC 2001
52.223-6	Drug Free Workplace	MAY 2001
52.225-13	Restrictions on Certain Foreign Purchases	JUL 2000
52.227-1	Authorization and Consent	JUL 1995
52.227-2	Notice And Assistance Regarding Patent And Copyright	AUG 1996

	Infringement	
52.227-11	Patent Rights--Retention By The Contractor (Short Form)	JUN 1997
52.228-7	Insurance--Liability To Third Persons	MAR 1996
52.230-2	Cost Accounting Standards	APR 1998
52.230-3	Disclosure And Consistency Of Cost Accounting Practices	APR 1998
52.230-6	Administration Of Cost Accounting Standards	NOV 1999
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-17	Interest	JUN 1996
52.232-18	Availability Of Funds	APR 1984
52.232-20	Limitation Of Cost	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-23	Assignment Of Claims	JAN 1986
52.232-25 Alt I	Prompt Payment (Feb 2002) Alternate I	FEB 2002
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	MAY 1999
52.233-1	Disputes	DEC 1998
52.233-3 Alt I	Protest After Award (Aug 1996) - Alternate I	JUN 1985
52.237-3	Continuity Of Services	JAN 1991
52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.242-3	Penalties for Unallowable Costs	MAY 2001
52.242-4	Certification of Final Indirect Costs	JAN 1997
52.242-13	Bankruptcy	JUL 1995
52.243-2 Alt I	Changes--Cost-Reimbursement (Aug 1987) - Alternate I	APR 1984
52.243-6	Change Order Accounting	APR 1984
52.243-7	Notification Of Changes	APR 1984
52.244-2 Alt I	Subcontracts (Aug 1998) - Alternate I	AUG 1998
52.244-5	Competition In Subcontracting	DEC 1996
52.244-6	Subcontracts for Commercial Items	DEC 2001
52.245-5 Alt I	Government Property (Cost-Reimbursement, Time-and-Material, Or Labor-Hour Contracts) Alternate I	JUL 1985
52.245-18	Special Test Equipment	FEB 1993
52.246-25	Limitation Of Liability--Services	FEB 1997
52.248-1	Value Engineering	FEB 2000
52.249-6	Termination (Cost Reimbursement)	SEP 1996
52.249-14	Excusable Delays	APR 1984
52.251-1	Government Supply Sources	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	MAR 1999
252.203-7002	Display Of DOD Hotline Poster	DEC 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004	Required Central Contractor Registration	NOV 2001
252.205-7000	Provisions Of Information To Cooperative Agreement Holders	DEC 1991
252.209-7000	Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate Range Nuclear Forces (INF) Treaty	NOV 1995
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	MAR 1998
252.215-7000	Pricing Adjustments	DEC 1991
252.215-7002	Cost Estimating System Requirements	OCT 1998
252.219-7003	Small, Small Disadvantaged and Women-Owned Small Business Subcontracting Plan (DOD Contracts)	APR 1996
252.223-7004	Drug Free Work Force	SEP 1988
252.225-7001	Buy American Act And Balance Of Payments Program	MAR 1998
252.225-7002	Qualifying Country Sources As Subcontractors	DEC 1991

252.225-7009	Duty-Free Entry--Qualifying Country Supplies (End Products and Components)	AUG 2000
252.225-7012	Preference For Certain Domestic Commodities	AUG 2000
252.225-7026	Reporting Of Contract Performance Outside The United States	JUN 2000
252.225-7031	Secondary Arab Boycott Of Israel	JUN 1992
252.226-7001	Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD Contracts	SEP 2001
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7016	Rights in Bid or Proposal Information	JUN 1995
252.227-7019	Validation of Asserted Restrictions--Computer Software	JUN 1995
252.227-7030	Technical Data--Withholding Of Payment	MAR 2000
252.227-7036	Declaration of Technical Data Conformity	JAN 1997
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 1999
252.231-7000	Supplemental Cost Principles	DEC 1991
252.235-7001	Indemnification Under U. S. C. 2354--Cost Reimbursement	DEC 1991
252.235-7010	Acknowledgment of Support and Disclaimer	MAY 1995
252.235-7011	Final Scientific or Technical Report	SEP 1999
252.244-7000	Subcontracts for Commercial Items and Commercial Components (DoD Contracts)	MAR 2000
252.245-7001	Reports Of Government Property	MAY 1994
252.247-7023	Transportation of Supplies by Sea	MAR 2000
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000

CLAUSES INCORPORATED BY FULL TEXT

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \$0.00 or the overtime premium is paid for work --

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

52.223-11 OZONE-DEPLETING SUBSTANCES (MAY 2001)

(a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as--

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

(2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

"WARNING: Contains (or manufactured with, if applicable), a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere."-----

The Contractor shall insert the name of the substance(s).

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.arnet.gov>

<http://www.farsite.hill.af.mil>

<http://farsite.hill.af.mil/VFDFARs.htm>

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

SECTION J List of Documents, Exhibits and Other Attachments

CLAUSES INCORPORATED BY FULL TEXT

Ddl-J10 LIST OF EXHIBITS AND ATTACHMENTS

Attachment J.1 – Contract Data Requirements List, DD1423

SECTION K Representations, Certifications and Other Statements of Offerors

CLAUSES INCORPORATED BY REFERENCE:

52.203-11	Certification And Disclosure Regarding Payments To Influence Certain Federal Transactions	APR 1991
52.219-22	Small Disadvantaged Business Status	OCT 1999
52.222-38	Compliance with Veterans' Employment Reporting Requirements	DEC 2001
52.223-13	Certification of Toxic Chemical Release Reporting	OCT 2000
252.209-7001	Disclosure of Ownership or Control by the Government of a Terrorist Country	MAR 1998
252.227-7028	Technical Data or Computer Software Previously Delivered to the Government	JUN 1995

CLAUSES INCORPORATED BY FULL TEXT**52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)**

(a) Definitions.

"Common parent," as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)," as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) Taxpayer Identification Number (TIN).

___ TIN: _____

___ TIN has been applied for.

___ TIN is not required because:

___ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

- ☐ Offeror is an agency or instrumentality of a foreign government;
- ☐ Offeror is an agency or instrumentality of the Federal Government.

(e) Type of organization.

- ☐ Sole proprietorship;
- ☐ Partnership;
- ☐ Corporate entity (not tax-exempt);
- ☐ Corporate entity (tax-exempt);
- ☐ Government entity (Federal, State, or local);
- ☐ Foreign government;
- ☐ International organization per 26 CFR 1.6049-4;
- ☐ Other _____

(f) Common parent.

- ☐ Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.

☐ Name and TIN of common parent:

Name _____

TIN _____

52.204-5 WOMEN-OWNED BUSINESS (OTHER THAN SMALL BUSINESS) (MAY 1999)

(a) Definition. Women-owned business concern, as used in this provision, means a concern that is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of its stock is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

(b) Representation. [Complete only if the offeror is a women-owned business concern and has not represented itself as a small business concern in paragraph (b)(1) of FAR 52.219-1, Small Business Program Representations, of this solicitation.] The offeror represents that it () is a women-owned business concern.

52.209-5 CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS (DEC 2001)

(a)(1) The Offeror certifies, to the best of its knowledge and belief, that--

(i) The Offeror and/or any of its Principals--

(A) Are () are not () presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(B) Have () have not (), within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and

(C) Are () are not () presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in subdivision (a)(1)(i)(B) of this provision.

(ii) The Offeror has () has not (), within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.

(2) "Principals," for the purposes of this certification, means officers; directors; owners; partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment, and similar positions).

THIS CERTIFICATION CONCERNS A MATTER WITHIN THE JURISDICTION OF AN AGENCY OF THE UNITED STATES AND THE MAKING OF A FALSE, FICTITIOUS, OR FRAUDULENT CERTIFICATION MAY RENDER THE MAKER SUBJECT TO PROSECUTION UNDER SECTION 1001, TITLE 18, UNITED STATES CODE.

(b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

(c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.

(d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

(e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.

52.215-6 PLACE OF PERFORMANCE (OCT 1997)

(a) The offeror or respondent, in the performance of any contract resulting from this solicitation, () intends, () does not intend [check applicable block] to use one or more plants or facilities located at a different address from the address of the offeror or respondent as indicated in this proposal or response to request for information.

(b) If the offeror or respondent checks "intends" in paragraph (a) of this provision, it shall insert in the following spaces the required information:

 Place of performance (street address, city, state, county, zip code) Name and address of owner and operator of the plant or facility if other than offeror or respondent

52.219-1 SMALL BUSINESS PROGRAM REPRESENTATIONS (MAY 2001) ALTERNATE I (OCT 2000) & ALTERNATE II (OCT 2000)

- (a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 541710.
- (2) The small business size standard is large.
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.
- (b) Representations. (1) The offeror represents as part of its offer that it () is, () is not a small business concern.
- (2) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, for general statistical purposes, that it () is, () is not a small disadvantaged business concern as defined in 13 CFR 124.1002.
- (3) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a women-owned small business concern.
- (4) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a veteran-owned small business concern.
- (5) (Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.) The offeror represents as part of its offer that it () is, () is not a service-disabled veteran-owned small business concern.
- (6) (Complete only if offeror represented itself as small business concern in paragraph (b)(1) of this provision). The offeror represents, as part of its offer, that--
- (i) It () is, () is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR Part 126; and
- (ii) It () is, () is not a joint venture that complies with the requirements of 13 CFR Part 126, and the representation in paragraph (b)(6)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. (The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture: _____.) Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.
- (7) (Complete if offeror represented itself as disadvantaged in paragraph (b)(2) of this provision.) The offeror shall check the category in which its ownership falls:
- () Black American.
- () Hispanic American.

() Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians).

() Asian-Pacific American (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory of the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru).

() Subcontinent Asian (Asian-Indian) American (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal).

(c) Definitions. As used in this provision--

Service-disabled veteran-owned small business concern--

(1) Means a small business concern--

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

Small business concern means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

Veteran-owned small business concern means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

Women-owned small business concern means a small business concern --

(1) That is at least 51 percent owned by one or more women; in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

(d) Notice.

(1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the

preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall--

- (i) Be punished by imposition of fine, imprisonment, or both;
- (ii) Be subject to administrative remedies, including suspension and debarment; and
- (iii) Be ineligible for participation in programs conducted under the authority of the Act.

52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

- (a) ☐ It has, ☐ has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;
- (b) ☐ It has, ☐ has not, filed all required compliance reports; and
- (c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

52.222-25 AFFIRMATIVE ACTION COMPLIANCE (FEB 1984)

The offeror represents that

- (a) ☐ it has developed and has on file, ☐ has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or
- (b) ☐ has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

52.227-6 ROYALTY INFORMATION (APR 1984)

(a) Cost or charges for royalties. When the response to this solicitation contains costs or charges for royalties totaling more than \$250, the following information shall be included in the response relating to each separate item of royalty or license fee:

- (1) Name and address of licensor.
- (2) Date of license agreement.
- (3) Patent numbers, patent application serial numbers, or other basis on which the royalty is payable.
- (4) Brief description, including any part or model numbers of each contract item or component on which the royalty is payable.
- (5) Percentage or dollar rate of royalty per unit.
- (6) Unit price of contract item.
- (7) Number of units.

(8) Total dollar amount of royalties.

(b) Copies of current licenses. In addition, if specifically requested by the Contracting Officer before execution of the contract, the offeror shall furnish a copy of the current license agreement and an identification of applicable claims of specific patents.

252.247-7022 REPRESENTATION OF EXTENT OF TRANSPORTATION BY SEA (AUG 1992)

(a) The Offeror shall indicate by checking the appropriate blank in paragraph (b) of this provision whether transportation of supplies by sea is anticipated under the resultant contract. The term supplies is defined in the Transportation of Supplies by Sea clause of this solicitation.

(b) Representation. The Offeror represents that it:

____ (1) Does anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

____ (2) Does not anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

(c) Any contract resulting from this solicitation will include the Transportation of Supplies by Sea clause. If the Offeror represents that it will not use ocean transportation, the resulting contract will also include the Defense FAR Supplement clause at 252.247-7024, Notification of Transportation of Supplies by Sea.

Ddl-K20 AUTHORIZED NEGOTIATORS

The offeror shall provide the name and telephone number of personnel authorized to negotiate on behalf of the offeror:

In addition, the offeror shall provide a facsimile number and an email address to which correspondence and documents may be forwarded to the offeror, both prior to contract award and following contract award:

Facsimile: _____

Email: _____

SECTION L Instructions, Conditions and Notices to Bidders

CLAUSES INCORPORATED BY REFERENCE:

52.204-6	Data Universal Numbering System (DUNS) Number	JUN 1999
52.214-34	Submission Of Offers In The English Language	APR 1991
52.222-24	Preaward On-Site Equal Opportunity Compliance Evaluation	FEB 1999
52.222-46	Evaluation Of Compensation For Professional Employees	FEB 1993
252.217-7026	Identification of Sources of Supply	NOV 1995
252.227-7017	Identification and Assertion of Use, Release, or Disclosure Restrictions	JUN 1995

CLAUSES INCORPORATED BY FULL TEXT

52.211-14 NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contract awarded as a result of this solicitation will be DX rated order; X DO rated order certified for national defense use under the Defense Priorities and Allocations System (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)

(a) Exceptions from cost or pricing data. (1) In lieu of submitting cost or pricing data, offerors may submit a written request for exception by submitting the information described in the following subparagraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable.

(i) Identification of the law or regulation establishing the price offered. If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

(ii) Commercial item exception. For a commercial item exception, the offeror shall submit, at a minimum, information on prices at which the same item or similar items have previously been sold in the commercial market that is adequate for evaluating the reasonableness of the price for this acquisition. Such information may include--

(A) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities;

(B) For market-priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market;

(C) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.

(2) The offeror grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this provision, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the offeror's determination of the prices to be offered in the catalog or marketplace.

(b) Requirements for cost or pricing data. If the offeror is not granted an exception from the requirement to submit cost or pricing data, the following applies:

(1) The offeror shall prepare and submit cost or pricing data and supporting attachments in accordance with Table 15-2 of FAR 15.408.

As soon as practicable after agreement on price, but before contract award (except for unpriced actions such as letter contracts), the offeror shall submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

52.216-1 TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Cost Plus Fixed Fee (CPFF) contract resulting from this solicitation.

52.219-22 SMALL DISADVANTAGED BUSINESS STATUS (OCT 1999)

(a) General. This provision is used to assess an offeror's small disadvantaged business status for the purpose of obtaining a benefit on this solicitation. Status as a small business and status as a small disadvantaged business for general statistical purposes is covered by the provision at FAR 52.219-1, Small Business Program Representation.

(b) Representations.

(1) General. The offeror represents, as part of its offer, that it is a small business under the size standard applicable to this acquisition; and either--

___ (i) It has received certification by the Small Business Administration as a small disadvantaged business concern consistent with 13 CFR 124, Subpart B; and

(A) No material change in disadvantaged ownership and control has occurred since its certification;

(B) Where the concern is owned by one or more disadvantaged individuals, the net worth of each individual upon whom the certification is based does not exceed \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and

(C) It is identified, on the date of this representation, as a certified small disadvantaged business concern in the database maintained by the Small Business Administration(PRO0Net); or

___ (ii) It has submitted a completed application to the Small Business Administration or a Private Certifier to be certified as a small disadvantaged business concern in accordance with 13 CFR 124, Subpart B, and a decision on that application is pending, and that no material change in disadvantaged ownership and control has occurred since its application was submitted.

(2)___ For Joint Ventures. The offeror represents, as part of its offer, that it is a joint venture that complies with the requirements at 13 CFR 124.1002(f) and that the representation in paragraph (b)(1) of this provision is accurate for the small disadvantaged business concern that is participating in the joint venture. [The offeror shall enter the name of the small disadvantaged business concern that is participating in the joint venture: _____.]

(c) Penalties and Remedies. Anyone who misrepresents any aspects of the disadvantaged status of a concern for the purposes of securing a contract or subcontract shall:

- (1) Be punished by imposition of a fine, imprisonment, or both;
- (2) Be subject to administrative remedies, including suspension and debarment; and
- (3) Be ineligible for participation in programs conducted under the authority of the Small Business Act.

52.233-2 SERVICE OF PROTEST (AUG 1996)

- (a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from :

GARY W. BYRAM, CODE XDS116
 Naval Surface Warfare Center, Dahlgren Division
 17320 Dahlgren Road
 Dahlgren, VA 22448-5100

- (b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.arnet.gov>
<http://www.farsite.hill.af.mil>
<http://farsite.hill.af.mil/VFDFARs.htm>

52.252-5 AUTHORIZED DEVIATIONS IN PROVISIONS (APR 1984)

- (a) The use in this solicitation of any Federal Acquisition Regulation (48 CFR Chapter 1) provision with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the provision.
- (b) The use in this solicitation of any 48 CFR Chapter provision with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

Ddl-L10 PROPOSAL PREPARATION REQUIREMENTS

Offerors are required to prepare their proposals in accordance with the following organization, content and format.

- (a) SOLICITATION, OFFER AND AWARD DOCUMENTS (SF 33 - RFP)

(1) This document, which may be used as part of the contract award document, shall be fully executed and returned as a separate document from the technical/management and cost proposals. Special attention should be taken to accurately enter the prices required in Section B, complete the fill-ins in Section(s) H, complete all Representations and Certifications in Section K and ensure that an authorized person signs the offer in Block 17 of Page 1. This document shall not be embellished with any covers or binding.

(2) Offerors are encouraged not to take exceptions to this solicitation, however, any exceptions taken to the specifications, or terms and conditions of this solicitation shall be identified in a cover letter and explained in detail in the appropriate section of the technical proposal.

(b) TECHNICAL PROPOSAL

(1) The technical proposal shall not contain any reference to cost and shall be prepared in accordance with the following guidelines and the TECHNICAL PROPOSAL specific requirements below.

(2) The technical proposal should be written so that management and engineering oriented personnel can make a thorough evaluation and arrive at a sound determination as to whether the proposal meets the requirements of this solicitation. To this end, the proposal shall be so specific, detailed and complete as to clearly and fully demonstrate that the prospective contractor has a thorough understanding of the technical requirements contained in Section C of this solicitation. The technical proposal shall not exceed 10 pages in its discussion of management, technical, corporate experience, personnel and facilities, except that additional pages will be allowed for resumes and matrices.

(3) Statements such as "the offeror understands", "will comply with the statement of work", "standard procedures will be employed", "well known techniques will be used" and general paraphrasing of the statement of work are considered inadequate. The technical proposal must provide details concerning what the contractor will do and how it will be done. This includes a full explanation of the techniques, disciplines, and procedures proposed to be followed.

(4) Unnecessarily elaborate brochures or other presentations beyond that sufficient to present a complete and effective proposal are not desired and may be construed as an indication of the offeror's lack of cost consciousness. Elaborate art work, expensive paper and bindings, or expensive visual and other presentation aids are neither necessary nor desired.

(5) In the event any portion of the technical proposal is written by anyone who is not a bona fide employee of the firm submitting the proposal, a certificate to this effect shall be furnished. It must be signed by a responsible officer of the offeror and shall show the author's name, employment capacity, the name of the person's firm, the relationship of that firm to the offeror's, and the portion of the technical proposal he/she wrote.

(6) Technical information previously submitted, if any, may not be considered by the Government; hence, any such information should not be relied upon or incorporated in the technical proposal by reference.

(c) COST OR PRICE PROPOSAL

The cost proposal shall provide full supporting detail for the prices listed in Section B of the proposal and shall be prepared in accordance with the COST PROPOSAL specific requirements listed below.

(d) MARKING OF PROPOSALS

Proposals shall be submitted as separate volumes, as follows:

	Original	Copies
Volume I, Solicitation, Offer and Award (SF 33)	1	1

Volume II, Technical Proposal	1	1
Volume III, Cost or Price Proposal	1	1

The original of each volume shall be clearly identified as the "ORIGINAL" and bear original signatures. The copies shall be complete and clearly identified as "COPY."

Ddl-L33 COST PROPOSALS – SPECIFIC INSTRUCTIONS – COST REIMBURSEMENT CONTRACTS

The following instructions apply to the preparation of your Cost Proposal. The instructions herein apply equally to the prime contractor and to any consultants and/or subcontractors.

(a) Overall Project

(1) Resumes are required for all proposed professional staff, including consultants and subcontractors. Note that these individuals will be identified as Key Personnel in the contract and must be the individuals who perform the work.

(2) Identify your cognizant DCAA and ACO (DCMC) offices. Provide the name of a point of contact for each and provide current phone numbers.

(3) Your accounting system must be approved by DCAA for cost type contracts. Please indicate whether or not your accounting system has been approved. If it has not, contact your cognizant DCAA as soon as possible to arrange for this review; this can add as much as 8-12 weeks to the contract award process.

(4) Identify your fiscal year if other than the calendar year.

(5) Where copies of documents/data are requested in the following instructions, they should be submitted with the hard (paper) copies of the proposal submission.

(b) Direct Labor

(1) Provide a table which identifies all proposed hours by proposed task/subtask and contract period (base period and option periods, if applicable). These hours should be identified by labor category and individual (provide names). Separately identify hours to be provided by consultants or subcontractors. This information will facilitate our evaluation of the proposed hours and labor mix for the proposed effort.

(i) The offeror is directed to provide proposed costs based on utilization of the direct technical labor category stated in Section H. Offeror is reminded that the staff proposed in the technical proposal must be the same staff proposed in the cost proposal. The labor categories/hours contained in Section L of this solicitation are based on the assumption that individuals/resumes identified at time of award will continue to be made available throughout the life of the contract. Failure to submit a consistent labor mix may be interpreted as the offeror's intention to substitute lesser-qualified personnel for original Key Personnel. Offeror shall, therefore, provide a detailed explanation for any significant change in labor mix by contractor category, solicitation labor category, and contract year.

(ii) Offeror shall base their Cost Proposal on the labor mix shown below:

LABOR CATEGORY	CLIN 0001
Key Personnel	Hours
Senior Engineer	6000

(iii) The above estimate is furnished for the purpose of providing additional information to the statement of work to permit optimum response by offeror. The agreed-to level of effort will be specified in the award document, in accordance with the Section H clause "Level of Effort."

(iv) The total contract labor provided above refers to technical labor categories only. Corporate, or any other local level management, clerical, and contract business management/administration is considered to be overhead in nature. The offeror is, however, permitted to propose such labor hours as a direct charge if it is in accordance with his standard DCAA approved practice to do so. Such hours shall be added to the total number of hours proposed. The offeror shall clearly state what additional functions are to be direct charged, including administrative word processing, reproduction, library, contract administration (to include support for progress report preparation and invoicing), security administration, contract quality assurance, CDRL review and approval, etc. The additional hours/amounts proposed for each of these functions shall be fully explained and justified. Offerors are cautioned to submit realistic estimates in this area because the ratio of these hours to technical hours will be used as a guideline in the evaluation of delivery order proposals and the reasonableness of actual costs incurred under this contract.

(v) The total contract labor provided above refers to technical labor categories only. Corporate, or any other local level management, clerical, and contract business management/administration is considered to be overhead in nature. The offeror is, however, permitted to propose such labor hours as a direct charge if it is in accordance with his standard DCAA approved practice to do so. Such hours shall be added to the total number of hours proposed. The offeror shall clearly state what additional functions are to be direct charged, including administrative word processing, reproduction, library, contract administration (to include support for progress report preparation and invoicing), security administration, contract quality assurance, CDRL review and approval, etc. The additional hours/amounts proposed for each of these functions shall be fully explained and justified. Offerors are cautioned to submit realistic estimates in this area because the ratio of these hours to technical hours will be used as a guideline in the evaluation of delivery order proposals and the reasonableness of actual costs incurred under this contract.

(vi) Labor Rates for Named Key Personnel - The cost proposal shall reflect actual labor rates expected to be expended in performing the proposed contract; e.g., actual hourly rates for named Key Personnel if such rates will be the basis for billing under the resultant contract, and not a composite rate of individuals within a labor classification or labor category. The Cost Proposal shall contain a table which shows the following for each named person:

- (A) Current (as of the date of proposal submission) actual hourly rate (based on a 40 hour workweek).
- (B) Current decremented hourly rate (if uncompensated overtime is proposed).
- (C) Contract year one hourly rate.
- (D) Applicable contract and contractor labor category.

Rates projected through the life of the contract. Offerors are cautioned that outyear rates must reflect the requirement for replacement of key personnel to have qualifications equal to or better than the key person being replaced.

(vii) Include documentation from the cognizant government auditor which shows the offeror's current approved category average rate for each labor category proposed, if applicable.

(viii) If the contractor does not have established corporate labor categories for which the above information can be provided, the offeror shall provide a narrative justification of the realism of each proposed bid rate.

(ix) Provide a copy of the overtime policy noting who is paid overtime and the applicable rate.

(x) Escalation - Labor escalation is defined to include all factors which affect an individual's compensation level to include merit increases, promotions, and cost-of-living adjustments. State the annual labor escalation rate used in the Cost Proposal. Provide a chart that shows the salary history for each proposed named individual for the most recent 3 year period. Show the effective dates for each rate and compute an average annual escalation rate from these data. If a lower escalation rate is proposed than the average rate derived from the above table, specific justification shall be provided as to why the proposed rate should be considered realistic. Describe the management controls to be implemented to hold the actual labor escalation rate to what is proposed. Offerors shall ensure that the proposed escalation rate is realistic as it will be used to evaluate the reasonableness of proposed labor costs for negotiation of delivery/task orders, if applicable.

(xi) Uncompensated Overtime - If decremented direct labor rates are proposed, either by the prime or by any subcontractor, the Cost Proposal shall include a detailed description, including examples as appropriate, of the manner in which the offeror plans to track and report compliance with the UNCOMPENSATED OVERTIME clause in Section H. Offerors shall note that clause requires reports at the delivery/task order level (if applicable) showing the aggregate percentage reduction in billing rates due to an expanded workweek. If the offeror plans to track delivery of uncompensated overtime by reporting UT hours worked, the offeror shall specifically show in the Cost Proposal, how the number of UT hours reported, in relation to the regular hours worked, accurately represents the actual percentage decrement to labor billing rates. Sample calculation shall be provided. Statements that the offeror's procedures are approved by DCAA are not sufficient.

(2) Provide copies of current payroll records to support proposed base hourly rates. In the case of a contingent hire, provide a copy of an accepted offer letter that identifies the agreed-to salary amount. Identify the labor escalation rate, if applicable, used for pricing purposes and rationale supporting the use of that rate.

(3) If you are proposing "TBD" or vacant positions, please provide written rationale for proposed hourly rates.

(c) Other Direct Costs

(1) Consultants - If you propose to use consultants, provide written communication from each proposed consultant which clearly shows the proposed hourly rate.

(2) Subcontractors - If your proposal includes subcontractors, information regarding proposed subcontract costs is required at the same level of detail as that provided for the prime contractor. Frequently, subcontractors are not willing to provide such detail to a prime contractor. Accordingly, this detail may be submitted directly to the Government or may be submitted to you in a sealed envelope that you forward with your proposal. You should encourage your subcontractors to comply. Their failure to submit all necessary information will delay contract award.

(3) Special Tooling And Test Equipment - If applicable, identify each item proposed and provide rationale for proposed amounts. Provide copies of vendor quotes where applicable. Also include a narrative justification for the item(s). Note that the Government will take title and possession of any item of special tooling or test equipment the cost of which is charged in full (direct charged) to the Government.

(4) Materials/Other Direct Costs - This category covers a variety of items, from reproduction costs to computer time to raw materials needed for the project. If materials/other direct costs are included in your proposal, please identify each type of cost proposed. Provide a narrative justification for the item(s) and the basis for the proposed price. Where applicable, provide copies of vendor quotes.

(5) Other Equipment - Non-consumable assets that do not fall under the definition of special tooling and test equipment that are proposed to be fully charged to the Government are considered to be "facilities". It is preferred that contractors provide all facilities required for contract performance. If you are unable to provide all facilities and include such in your proposal, please provide a justification for each item proposed including its necessity to the proposed research. As with special tooling and test equipment, note that the Government will take

title and possession of any items direct charged to the Government. Note also that fee is not allowed on the cost of facilities.

(6) Travel – If travel is proposed, separately identify each proposed trip in terms of destination, number of travelers, trip duration, and cost (separately show costs for airfare, rental car, per diem, personal mileage, etc.).

(d) Indirect Costs

(1) For each separate indirect cost pool reflected in your proposal (e.g., fringe benefits, overhead, G&A, material handling, etc.) clearly identify the rates used for proposal calculation.

(2) If DCAA has approved your indirect rates for bidding purposes (Forward Pricing Rate Agreement), please provide copies of the applicable DCAA correspondence or a copy of the Agreement.

(3) Please provide a complete description of each indirect cost pool and a listing of the types of costs that are charged to each pool. Identify the base to which the indirect cost rate is applied (for example, if the indirect pool is "Labor Overhead" and the indirect rate is applied to total direct labor cost, identify the base for the "Labor Overhead" pool as "Total Direct Labor Cost"). If DCAA has not approved your indirect rates, provide a complete explanation of how the proposed indirect rate was calculated. Indirect rates (and the methodology for computing those rates) that have not been approved by DCAA may require review by DCAA or by the NSWCDD Cost/Price Analyst prior to contract award.

DdI-L40 SUBMISSION OF QUESTIONS BY POTENTIAL OFFERORS

It is the offeror's responsibility to bring to the attention of the Contracting Officer at the earliest possible time, but prior to the closing date, any ambiguities, discrepancies, inconsistencies, or conflicts between the Statement of Work (SOW) and other solicitation documents attached hereto or incorporated by reference. All questions are requested in writing within two weeks of the Solicitation's closing date.

HQ L-2-0008 REQUIREMENTS CONCERNING WORK WEEK (NAVSEA) (MAY 1993)

(a) Uncompensated effort is defined as hours provided by personnel in excess of 40 hours per week without additional compensation for such excess work.

(b) The offeror may include uncompensated effort in its proposed level of effort if:

(1) The offeror has an established cost accounting system, approved by the Defense Contract Audit Agency, which records all hours worked, including uncompensated hours, for all employees, and regardless of contract type.

(2) Uncompensated hours, for all employees and regardless of contract type, are included in the offeror's base for allocation of overhead costs.

(3) The proposal identifies hours of uncompensated effort proposed by labor category.

(4) The proposal identifies the amount of uncompensated effort which will be performed without supervision and without support personnel and assesses the productivity of such effort.

(5) The proposal describes the extent to which employees are required or encouraged to perform uncompensated effort and the impact the use of uncompensated effort has on work effectiveness.

(6) The proposal includes a copy of the corporate policy addressing uncompensated effort.

(c) The above information must be provided for each subcontract which has uncompensated effort included in the proposed level of effort.

(d) Any proposal which includes uncompensated effort in the proposed level of effort not in compliance with the above may be rejected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. B. EXHIBIT C. CATEGORY:
TDP _____ TM _____ OTHER _____

D. SYSTEM/ITEM ENGINEERING SUPPORT E. CONTRACT/PR NO. F. CONTRACTOR

1. DATA ITEM NO. A001 2. TITLE OF DATA ITEM CONTRACTOR PROGRESS, STATUS AND MANAGEMENT REPORT 3. SUBTITLE

4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80227 5. CONTRACT REFERENCE 6. REQUIRING OFFICE NSWCDD G23

7. DD 250 REQ LT 9. DIST STATEMENT REQUIRED 10. FREQUENCY MTHLY 12. DATE OF FIRST SUBMISSION 30 DAC 14. DISTRIBUTION
8. APP CODE 11. AS OF DATE N/A 13. DATE OF SUBSEQUENT SUBMISSION See block 16
a. ADDRESSEE b. COPIES
Draft Final
Reg Repr

16. REMARKS
BLK. 3: CONTRACTOR'S FORMAT ACCEPTABLE.
BLK. 13: EVERY THIRTY (30) DAYS THEREAFTER
BLK. 14: REPORT SHALL BE SUBMITTED VIA ELECTRONIC MEDIA

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

G. PREPARED BY H. DATE 8-1-03 I. APPROVED BY James L. Fortune, Jr. Data Authority J. DATE 8-1-03